Claims:

No claims have been amended in this response. The listing of claims is presented to provide continuity across applications and as a convenience to the Examiner.

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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

10   Claim 1 (original): A method of estimating carrier frequency offset in a constant-period, preambled wireless communications system, the method comprising:
determining a main-cursor signal corresponding to a main-cursor path from a matched code output;
multiplying the main-cursor signal by a delayed conjugated version of the
15   main-cursor signal to obtain a first result; and
estimating the carrier frequency offset according to a predefined formula utilizing the first result.

Claim 2 (original): The method of claim 1 wherein the main-cursor signal is determined
20   using peak-detection.

Claim 3 (original): The method of claim 1 wherein the predefined formula includes multiplying a phase of the first result by the sign of a real part of the first result.

25   Claim 4 (original): The method of claim 3 wherein the main-cursor signal is a BPSK signal.

Claim 5 (original): The method of claim 1 wherein the communications system is a DSSS wireless communications system.

Claim 6 (original): A device for use in a constant-period, preambled wireless

5   communications system, the device comprising:

a transceiver for wirelessly communicating with another communications device within the communications system; and

control circuitry connected to the transceiver, the control circuitry comprising a CPU and a memory, the memory comprising:

10   program code capable of causing a main-cursor signal corresponding to a main-cursor path to be determined from a receiver's matched code output;

program code capable of causing the main-cursor signal to be multiplied by a delayed conjugated version of the main-cursor signal to obtain a first

15   result;

program code comprising at least a predefined formula; and

program code capable of causing a carrier frequency offset to be estimated according to the predefined formula utilizing the first result.

20   Claim 7 (original): The device of claim 6 wherein the main-cursor signal is determined using peak-detection.

Claim 8 (original): The device of claim 6 wherein the predefined formula includes multiplying a phase of the first result by the sign of a real part of the first result.

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Claim 9 (original): The device of claim 6 wherein the main-cursor signal is a BPSK signal.

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Claim 10 (original): The device of claim 6 further comprising a keyboard and LCD.

Claim 11 (original): The device of claim 6 wherein the communications system is a DSSS

wireless communications system.

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